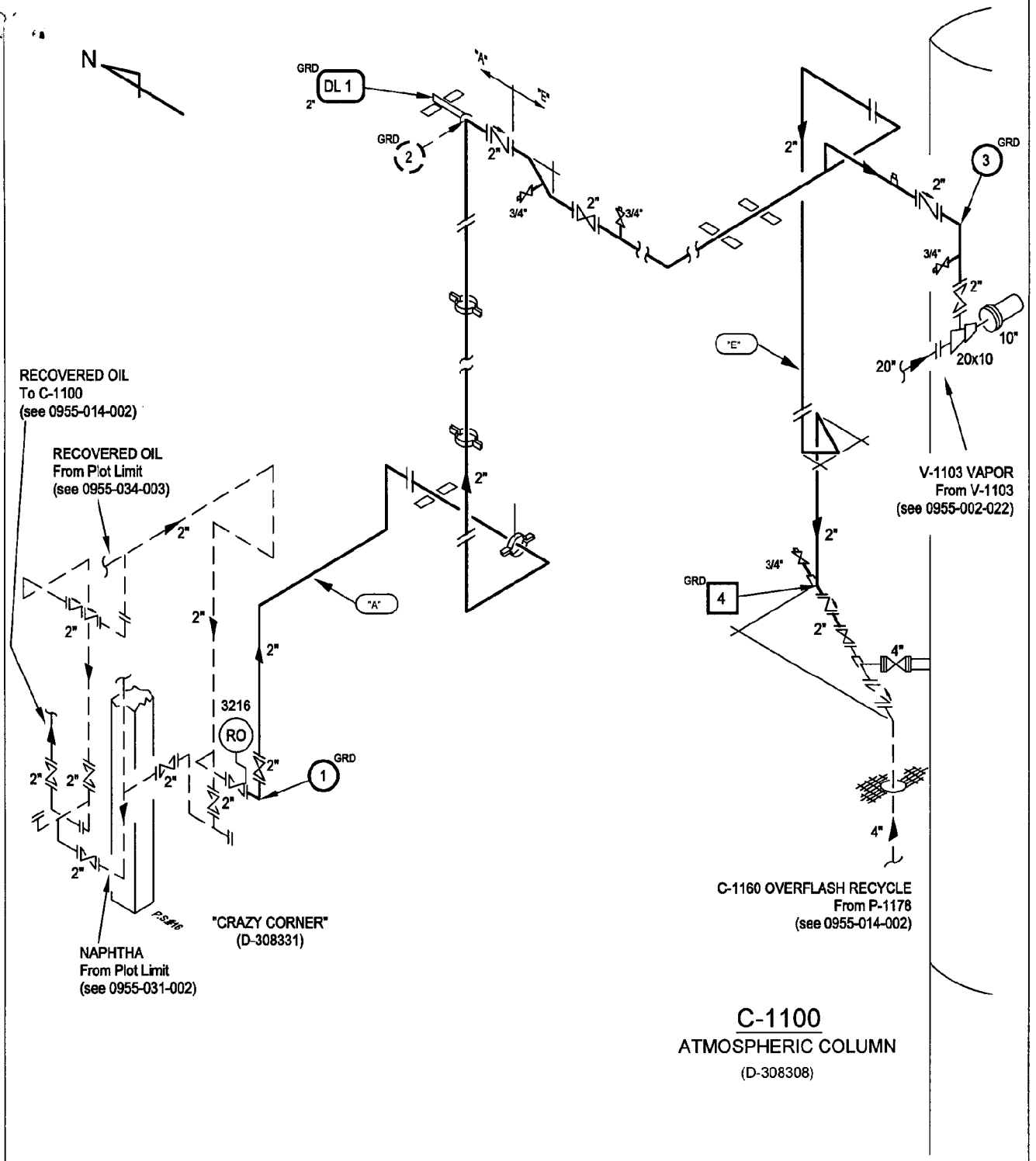
# Corrosion Report

Chevron

| | |
|---|---|
| **Equipment Location ID** | 0955-034-004 |
| **Equip. Location Descrip.** | RECOVERED OIL TO C-1100 |

| | |
|---|---|
| **Remaining Life (Years)** | 34.99 |
| **Retirement Date** | 11/06/2038 |
| **Last Inspection Date** | 08/09/2005 |
| **Next Inspection Date** | 11/10/2013 |
| **Current Corrosion Rate** | 1.43 |

| DP ID | MEAS METH | DP STAT | DP SZ | DT TYPE | BASE | MEAS 5 | MEAS 4 | MEAS 3 | NEAR | LAST | MIN VALUE | CCR | REM LIFE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001.1 | UT | A | 2.00 | ELL | 0.140 11/96 | | | | | 0.140 01/04 | 0.100 | 0.00 | ∞ |
| 001.2 | UT | A | 2.00 | ELL | 0.140 11/96 | | | | | 0.140 01/04 | 0.100 | 0.00 | ∞ |
| 003.1 | UT | A | 2.00 | ELL | 0.150 01/04 | | | | | 0.160 08/05 | 0.100 | 0.00 | ∞ |
| 003.2 | UT | A | 2.00 | ELL | 0.150 01/04 | | | | | 0.150 08/05 | 0.100 | 0.00 | ∞ |
| 004.R | RT | A | 2.00 | ELL | 0.160 11/96 | | | | | 0.150 11/03 | 0.100 | 1.43 | 34.99 |




# RECOVERED OIL TO C-1100

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|---|---|---|---|---|---|
| STATUS: *ISO570 COMPLETE* | RATING? [X] 150# [ ] 300# | API-570 [ ] CLASS I | 07/03/2012 TTMW | *INSPECTION PIPING ISOMETRIC* | |
| MATERIAL: *C.S.* SERVICE: *RECOVERED OIL* | STM TRACED? [ ] | [X] CLASS II | | *#34 RECOVERED OIL* | |
| PIPE CLASS: *"AB0"(A)(E)* PWHT: *NO* | INSULATED? [ ] | [ ] CLASS III | | *#4 CRUDE UNIT (PLANT 11)* | |
| | | | | *DISTILLATION AND REFORMING AREA BUSINESS UNIT* | |
| LINE NAME: *RECOVERED OIL TO C-1100* | | | Z | 0955-034-004 | REV 1 / SHT 1 |
| FROM: *"CRAZY CORNER" AT P.S. 16* | | | | | |
| TO: *C-1100 INLET LINES* | | | | | |

# History Brief

## For Location ID: 0955-034-004 in Unit: 0955

Report Date: August 15, 2012 Data Source: Meridium

### Brief Data:

| | | | |
|---|---|---|---|
| **Date Not Available:** | 1/6/2005 | **Date Available:** | |
| **History Brief Date:** | 01/11/2005 | **History Brief ID:** | EI-0501118217 |
| **Event Type:** | Inspection | **In- Service Date:** | |
| **Equipment ID:** | 0955-034-004 | **Critical:** | L |
| **Asset ID:** | 0000110639 | **Reference Material:** | |
| **Work Order Nbr:** | | **Incident Event ID:** | |
| **History Type:** | FXD | **Inspection Date:** | 01/06/2005 |
| **Asset Type:** | 221 | **Inspection Type:** | EVI |
| **Cost Center:** | K.DCRRI00281 | | |
| **Unit:** | 0955 - 4 CRUDE UNIT PLT 11 | | |
| **Headline:** | 5 Year VT Insp, No Issues | | |

### Reliability Analysis:

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|---|---|---|---|
| **Event Type:** | Inspection | **Worked Performed By:** | Chevron - General |
| **Cause Category:** | Compliance, Inspection, PM | **Program Status:** | |
| **Effect Category:** | No Effect | **Maintainable Item:** | General |
| **Repair Location:** | | **Permanent Repair WO:** | |
| **Temporary Repair:** | | **Name:** | JMJG |
| **Save:** | | **Inspected By:** | |

### Reliability Comments:

# History Brief

## For Location ID: 0955-034-004 in Unit: 0955

Report Date: August 15, 2012 | Data Source: Meridium

### Brief Data:

| | | | |
|---|---|---|---|
| **Date Not Available:** | 11/11/2003 | **Date Available:** | 11/11/2003 |
| **History Brief Date:** | 11/12/2003 | **History Brief ID:** | VI-0311095455 |
| **Event Type:** | Inspection | **In- Service Date:** | 11/11/2003 |
| **Equipment ID:** | 0955-034-004 | **Critical:** | L |
| **Asset ID:** | 0000110639 | **Reference Material:** | |
| **Work Order Nbr:** | | **Incident Event ID:** | |
| **History Type:** | FXD | **Inspection Date:** | 11/12/2003 |
| **Asset Type:** | 221 | **Inspection Type:** | |
| **Cost Center:** | K.DCRRI00281 | | |
| **Unit:** | 0955 - 4 CRUDE UNIT PLT 11 | | |
| **Headline:** | OSI Severe weld defect at TML 4-wormhole porisity with 1/2" linear defect | | |

### Reliability Analysis:

| | | | |
|---|---|---|---|
| **Event Type:** | Inspection | **Worked Performed By:** | Chevron Reliability |
| **Cause Category:** | Compliance, Inspection, PM | **Program Status:** | |
| **Effect Category:** | Physical Damage | **Maintainable Item:** | Pipe Wall |
| **Repair Location:** | | **Permanent Repair WO:** | |
| **Temporary Repair:** | | **Name:** | LSLR |
| **Save:** | | **Inspected By:** | LSLR |

### Findings:

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|---|---|---|---|
| **PCA ID:** | PCA-002031891 | **Condition:** | |
| **Inspectable:** | GENERAL | **Action:** | |
| **Sub Item:** | | **Location:** | |
| **Part:** | PIPE WALL | **Damage Mechanism:** | |
| **Discussion:** | | **PCA Work Order No :** | |

### Reliability Comments:

UPDATE (1-9-08):
The defective weld was removed with a spool piece from the flange above TML # 4 to the check valve just past the TML. -jmg

UPDATE: 11/13/03
IWO # 4CU03-4_34-4 was written and attacthed to Passport work order # 26157596 to perform work required to repair or replace the above weld. The AI agrees with the determination that the defect does not require immediate attention. Since the actual identification of the linear defect is difficult to determine from the radiograph, it was classified as such. -jmg 11/13/03

Routine OSI inspection on TML 4 (2" recovered oil line to C-1100 at N18 - overflash nozzle) revealed a severe weld defect on the upper weld. Defect included a massive amount of wormhole porositiy with diameters to 1/4" as well as 1/2" linear defect running between adjacent porosity. Review of past data indicated this TML was radiographed in 1996 but no comment was made about this defect.

Field inspection showed no surface defects visible on the weld nor any indication of leakage. It appears that the welder put a heavy cover pass on the weld to coverup his poor craftsmanship. It was also determined that all of the valves around this TML were in the off position thus isolated from the main process (in this case C-1100). Though

# History Brief

**For Location ID: 0955-034-004 in Unit: 0955**

Report Date: August 15, 2012 Data Source: Meridium

this is a significant weld defect that should have leaked because of how severe it is, it was determined there was no immediate actionable item. The results were given to the AI for final reveiw/disposition.Note: AI free to edit this HB as needed to document outcome and or make recommendation.-LRS 11-12-03.